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•	Application No.	Applicant(s)	
Notice of Allowability	09/846,364	ISHIWATA ET AL.	
Notice of Allowability	Examiner	Art Unit	
	Karabi Guharay	2879	
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE NOTICE	OR REMAINS) CLOSED in this apport of the communication GHTS. This application is subject to CHTS.	plication. If not include	ed
1. This communication is responsive to RCE, filed on 04 Marce	-		
2. ☑ The allowed claim(s) is/are <u>2-10,21,22,27 and 30-35</u> .			
3. A The drawings filed on <u>02 May 2001</u> are accepted by the Exa	aminer.		2
 4. Acknowledgment is made of a claim for foreign priority und a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Application No	 national stage applica	tion from the
* Certified copies not received:			
Applicant has THREE MONTHS FROM THE "MAILING DATE" o noted below. Failure to timely comply will result in ABANDONME THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	f this communication to file a reply of this application.	complying with the req	quirements
 A SUBSTITUTE OATH OR DECLARATION must be submitted in the sub	ted. Note the attached EXAMINER's reason(s) why the oath or declarat	S AMENDMENT or Notion is deficient.	OTICE OF
6. CORRECTED DRAWINGS (as "replacement sheets") must	be submitted.		
(a) \square including changes required by the Notice of Draftsperso	n's Patent Drawing Review (PTO-9)48) attached	
1) ☐ hereto or 2) ☐ to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	Amendment / Comment or in the Of	fice action of	
Identifying indicia such as the application number (see 37 CFR 1.8 each sheet. Replacement sheet(s) should be labeled as such in the	4(c)) should be written on the drawing header according to 37 CFR 1.121(d	gs in the front (not the	back) of
7. DEPOSIT OF and/or INFORMATION about the deposi attached Examiner's comment regarding REQUIREMENT FOR A STATE OF THE PROPERTY OF THE PROP	t of BIOLOGICAL MATERIAL m OR THE DEPOSIT OF BIOLOGICA	ust be submitted. N L MATERIAL.	ote the
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Attachment(s)			
. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	•	-152)
. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary (I	PTO-413),	
 ✓ Information Disclosure Statements (PTO-1449 or PTO/SB/08) Paper No./Mail Date 03/04/04 Fyaminer's Commont Recording Population Provided 		ent/Comment	
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Application/Control Number: 09/846,364

Art Unit: 2879

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after allowance. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 04 March 2004 has been entered.

IDS, filed along with the request for continued examination, on 04 March 2004, has been considered and signed by examiner.

Preliminary Amendment, filed on 04 March 2004 has been considered and entered.

Claim 1 is cancelled. Claims 2, 9, 10, 21, 22, 27 and 33 have been amended.

Examiner's Amendment

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Frank A. DeLucia on 5/10/04.

The application has been amended as follows:

On last line of claim 2, delete the word "electrode".

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Examiner's Reasons for Allowance

The following is an examiner's statement of reason for allowance:

Regarding claim 2, the prior art of record fails to teach or suggests the combination of limitations set forth in claim 2, particularly an electron source comprising the limitation of an insulating material layer provided on a substrate wherein the insulating material has a plurality of partially exposed metal oxide particles on its surface and a plurality of enclosed metal oxide particles and an electron emitting layer and an electrode, connected with the electron emitting material, are disposed on the insulating material.

Regarding claims 30, 31 and 32, the prior art of record fails to teach or suggests the combination of limitations set forth in claims 30, 31 and 32, particularly comprising an insulating material on a substrate, wherein the insulating layer has a plurality of partially exposed metal oxide particles on its surface and a plurality of enclosed metal oxide particles, and an average particle size of plurality of partially exposed metal oxide particle is larger than an average particle size of the plurality of enclosed metal oxide particles, as in claim 30, or an average size of partially exposed metal oxide particle is in the range 50nm to 70nm wherein an average size of enclosed metal oxide particle is in the range 6nm to 40 nm, as claimed in claim 31, or an average size of enclosed metal oxide particle is 60 nm wherein an average size of enclosed metal oxide particle is in the range 6nm to 40 nm, as claimed in claim 32.

Claims 3-10, 21-22, 27 and 33-35 are allowed for being dependent on the allowed base claims.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karabi Guharay whose telephone number is (571) 272-2452. The examiner can normally be reached on Monday-Friday 8:30 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimeshkumar D. Patel can be reached on (571) 272-2457. The fax phone number for the organization is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

K. Guharay Karabi Guharay Patent Examiner Art Unit 2879

ASHOK PATEL PRIMARY EXAMINER